E. B. EVERINGHAM Pres't. O. S. HUMPHREY, Treas. CHAS. E. KETCHUM, Secy.

OFFICES:
BALTIMORE, MD.
BUFFALO, N.Y.
PHILADELPHIA, PA.
ROCHESTER, N.Y.
NEW YORK, N.Y.

Warsaw Elevator Co.

Manufacturers of

ELEVATORS.

Warsaw, N. Y., Aug. 2, 1909

C. F. Hamblen
St. Augustine, Fla.
Dear Sir:

We have your valued favor of the 28th. in regard to the carraige elevator, and under separate cover we are sending one of our catalogs, and enclose herewith a sheet showing the illustration of our regular four cable carriage elevator which is what we use for this purpose entirely. We also enclose a specification for this outfit showing just what we would recommend to give your customer the best results.

Please note particularly that in this specification we have figured to give you an elevator with an all iron frame winding machine which is far superior to the old style wood frame type which will be furnished you by every other manufacturer, we being the only people who make an iron frame winding machine, and we only did this after many years experience in this work, and during this time we made it a special study as to what would give the best results, would make a thoroughly substantial machine, and would be the simplest one to put up. By having ah all iron frame construction and inasmuch as the winding machine is all put together ready to bolt to the ceiling orset on top the timbers, we have the simplest elevator th t can be made, without an exception, the winding machine being all shipped together, except that it is necessary to put the rope wheel on after placing it in position. Also by having this construction you will be able to get the outfit in the least possible height in the top story of building, which is a very desirable feature in connection with hand elevators, as store buildings are very low between floors and many times it is almost next to impossible to get the car level with the top floor on account of the height, but by having our construction of machine we offset this as far as possible. Also we wish to call your attention to the face we are using a steel rope wheel instead of the cast iron one which is furnished by most manufacturers. This is a very important item, as the steel wheel will last much longer and there is great danger of the cast iron one breaking on account of the speed sometimes attained by the car in descending. Our machine is provided with steel roller bearings, which connected with the iron frame construction, makes it run with the least possible friction; also the simple construction which we have enables any ordinary carpenter to set the outfit up and it can be set up in one half the time of any other.

Now you may think we have exaggerated when we say this elevator can be erected in so much less time than any other, but we have done so because we have had practical experience andknow we are right in making this statement. Our price according to these specifications is $135.00 F.O.B. cars, Warsaw, N. Y., terms net cash. We very much hope to receive your order and wouldtake the utmost pains with it, making you special B/Ps showing just exactly how this has to be erected, and know it would please you. If there is anything further we can do, do not fail to advise but be sure to send on the order.

Very truly yours
WARSAW ELEVATOR CO.
C. E. Ketchum

CEK/S

WARSAW ELEVATOR CO.

MANUFACTURERS OF

PASSENGER, FREIGHT and
HAND-POWER ELEVATORS and
DUMB WAITERS.

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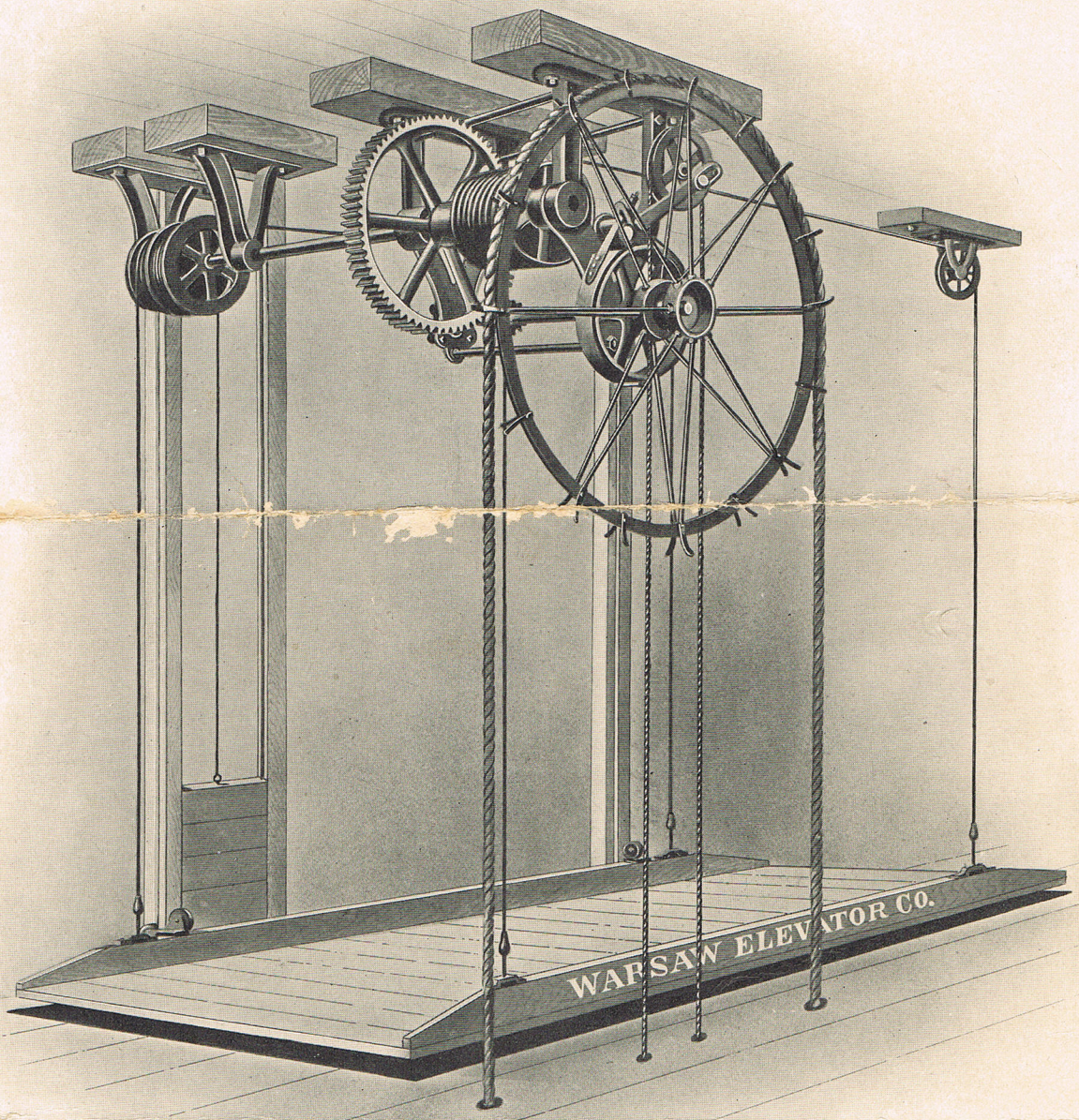
ROCHESTER, N. Y.



THE above cut shows our new iron-frame Carriage Elevator, erected ready for use. No wood frame work is needed in erecting, as the hangers and sheave brackets are bolted to ceiling timbers, leaving all clear around hatchway.

FIVE CABLES are used, one for each corner of car, and one for counter weight. Hand-rope may be placed at either corner or at end of platform, as desired.

PLATFORM is made of very best hardwood, and of any size. The side rails may be placed on underside if preferred. We also furnish adjusting screws to level platform.

WINDING MACHINE has heavy iron frame, STEEL ROLLER BEARINGS THROUGHOUT, all drums being spirally grooved, to prevent cable chafing.

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MANUFACTURERS OF

HIGH GRADE ELEVATORS

FOR

PASSENGER AND FREIGHT

SERVICE

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ELECTRIC DIRECT CONNECTED PASSENGER ELEVATOR WITH PILOT WHEEL

Direct Connected Electric Passenger Elevator

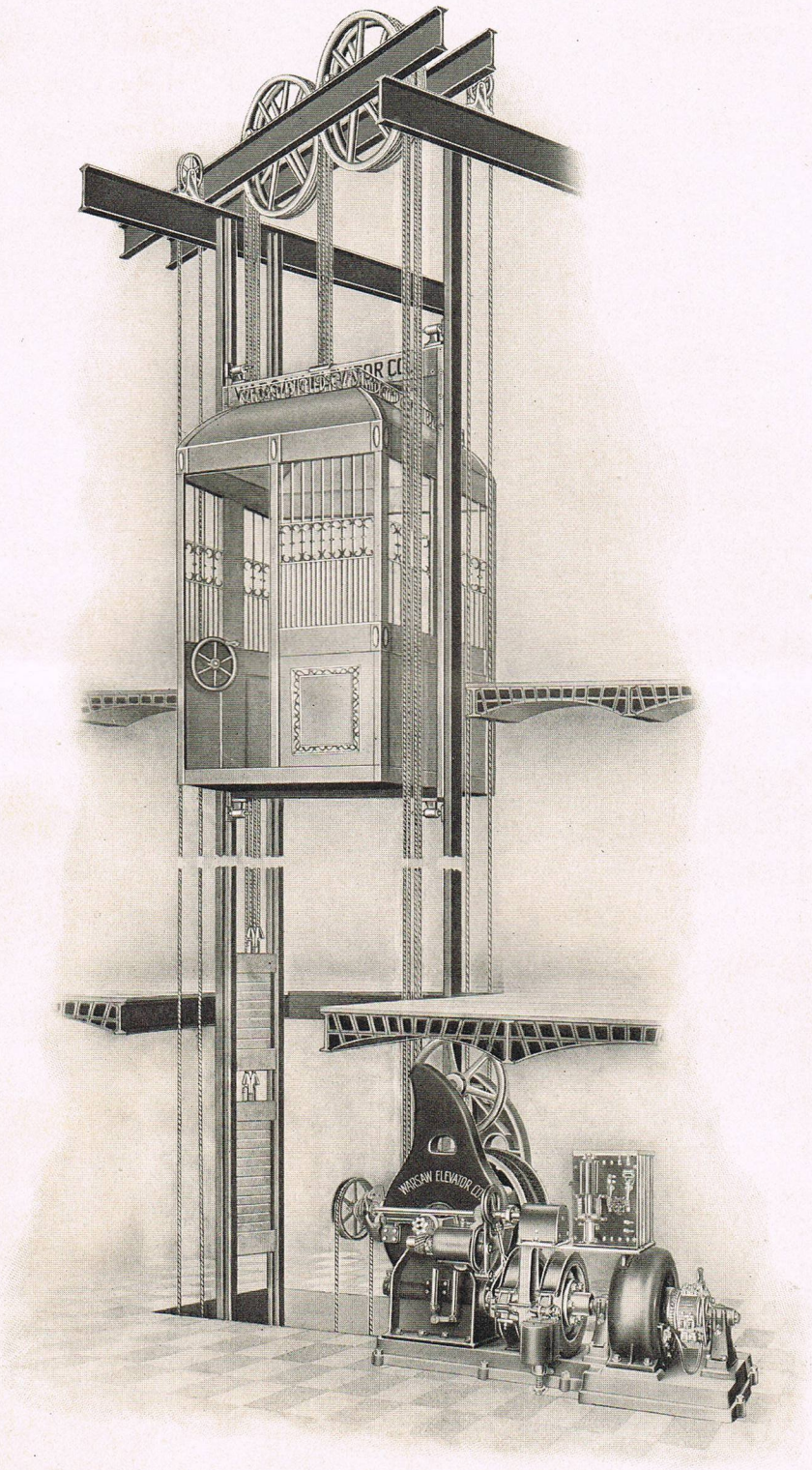
Operated By Pilot Wheel

THE cut on the next page illustrates one of the many ways of arranging our Type E Electric Winding Engine in connection with the cage and stationary adjuncts of a Direct Connected Electric Passenger Elevator.

Here, the Winding Engine is shown set on a foundation adjacent to the hatchway in the lower story. It may, however, be set on either side, or in rear of same, where the surroundings call for such an arrangement, or it may be placed on one of the upper floors if desired provided the floor is sufficiently strong and rigid, or if preferred it may be set directly over hatchway on steel beams.

This illustration shows steel overhead beams for the cable sheaves, and wood guides. We also build them with steel guides where these are preferred, or we make the entire construction of wood, also with or without governor safety, with Pilot Wheel, as shown here, or with Lever Control, or with Electric Control. In fact the modifications that can be made to suit the surrounding conditions, and the wishes of the purchaser, are too many to enumerate in this brief description.

Whatever the arrangements may be, we are always careful that nothing but the best, both in material and workmanship, enters into the construction of our elevators. Our long experience in this line of work and the fact that we devote all our time and energies exclusively to the manufacture of High Grade Elevators, insures the purchaser an equipment that for durability and smoothness of operation, can not be surpassed.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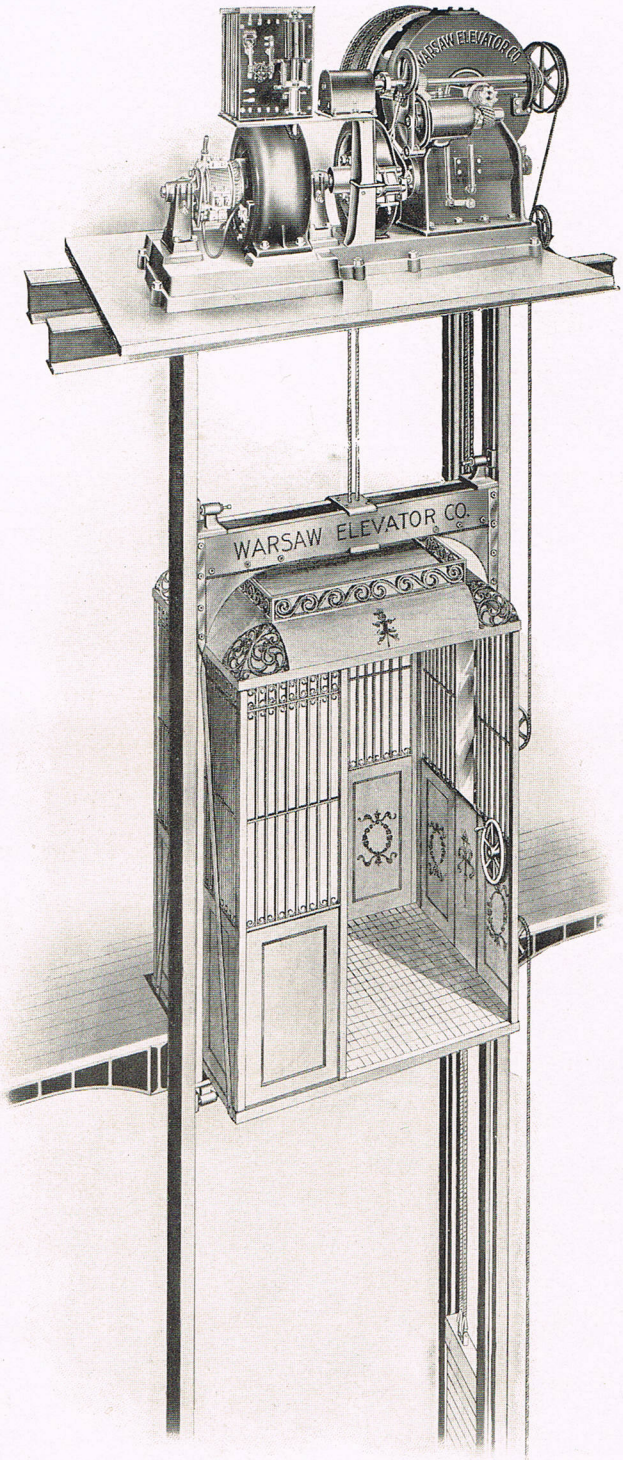
DIRECT CONNECTED ELECTRIC PASSENGER ELEVATOR WINDING ENGINE OVERHEAD IN HATCHWAY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NEW TYPE E
DIRECT CONNECTED
ELECTRIC WINDING ENGINE

New Type E Direct Connected Electric Winding Engine

THE cut on opposite page represents our new Type E Direct Connected Electric Winding Engine reproduced from photo of machine.

This machine is made in all sizes from 1,000 pounds to 10,000 pounds capacity, as desired, and all speeds, and is built to be operated either by hand cable, lever or pilot wheel device, or by electric control with hand lever switch in car. It is arranged to be fitted with single or double sets of brakes, same being operated either mechanically or electrically as desired. The cut shows one mechanical and one electrical brake, and in addition to these the machine is so designed that a dynamic electric brake can be furnished with either or both of them.

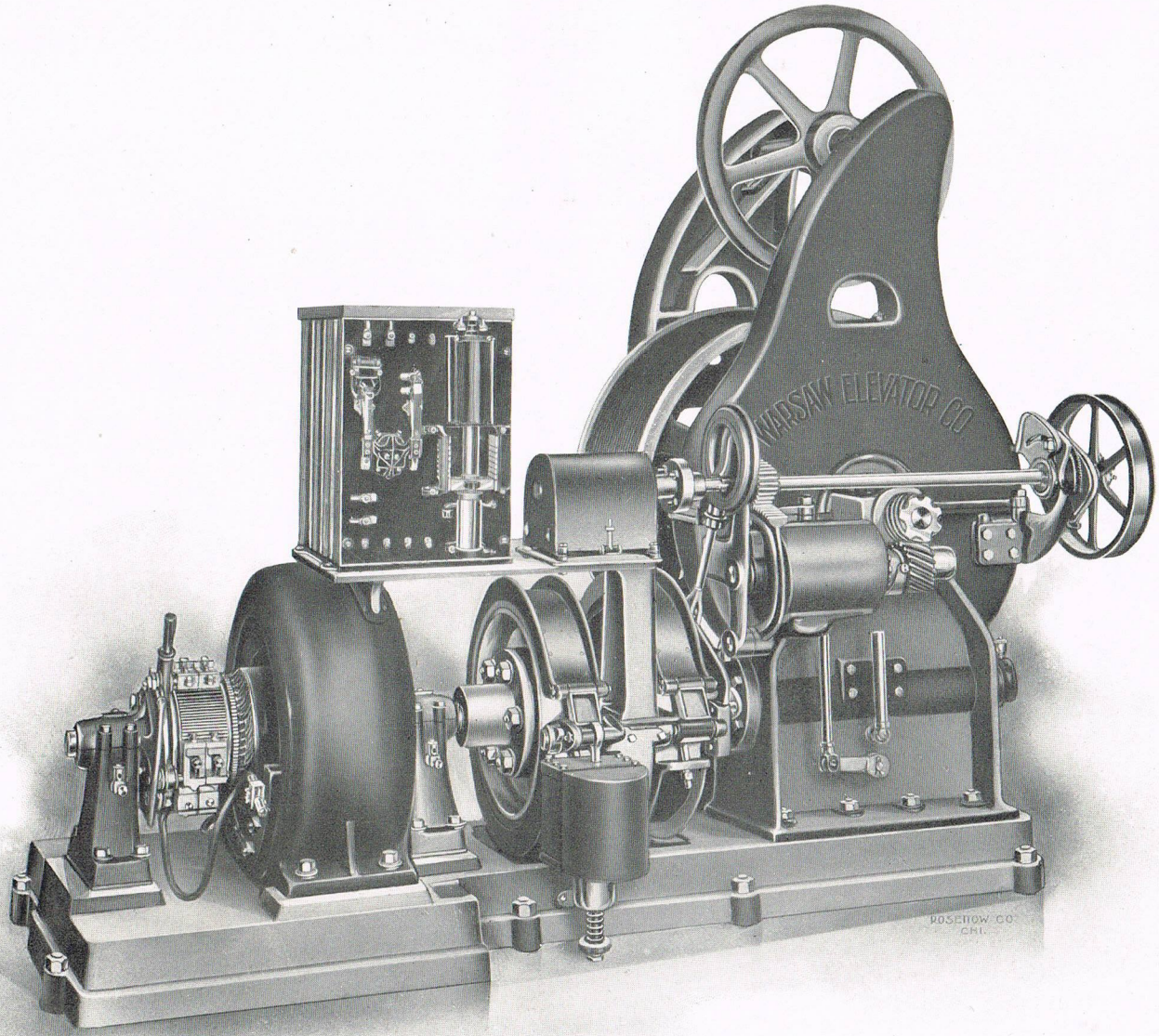
The gear is of phospher bronze, the teeth being accurately cut from solid stock.

The worm and worm shaft are in one piece, and are cut from one solid crucible steel forging, thereby obviating all danger of worm working loose on shaft, or of loosening keys as is also the case with the connection between the gear and winding drum.

All bearings for the worm shaft are bronze lined, and for slower moving parts of the best anti-friction metal.

A very important feature of a machine of this kind is the thrust bearing, which in the case of this machine is of the ball bearing type, the steel balls running between accurately ground hardened steel plates and is contained in a separate oil chamber and so arranged that the lost motion caused by wear in either direction can be at any time adjusted by one operation.

This machine has given universal satisfaction wherever it has been installed, and nothing but the very best material is used in its construction, and the workmanship throughout is of the very finest. Where a strictly high grade machine is desired, we can recommend it in every way, as it is exceptionally smooth running, with gentle stops, and very simple in construction, and very few parts to get out of order.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ROSENOW CO.
CHI.

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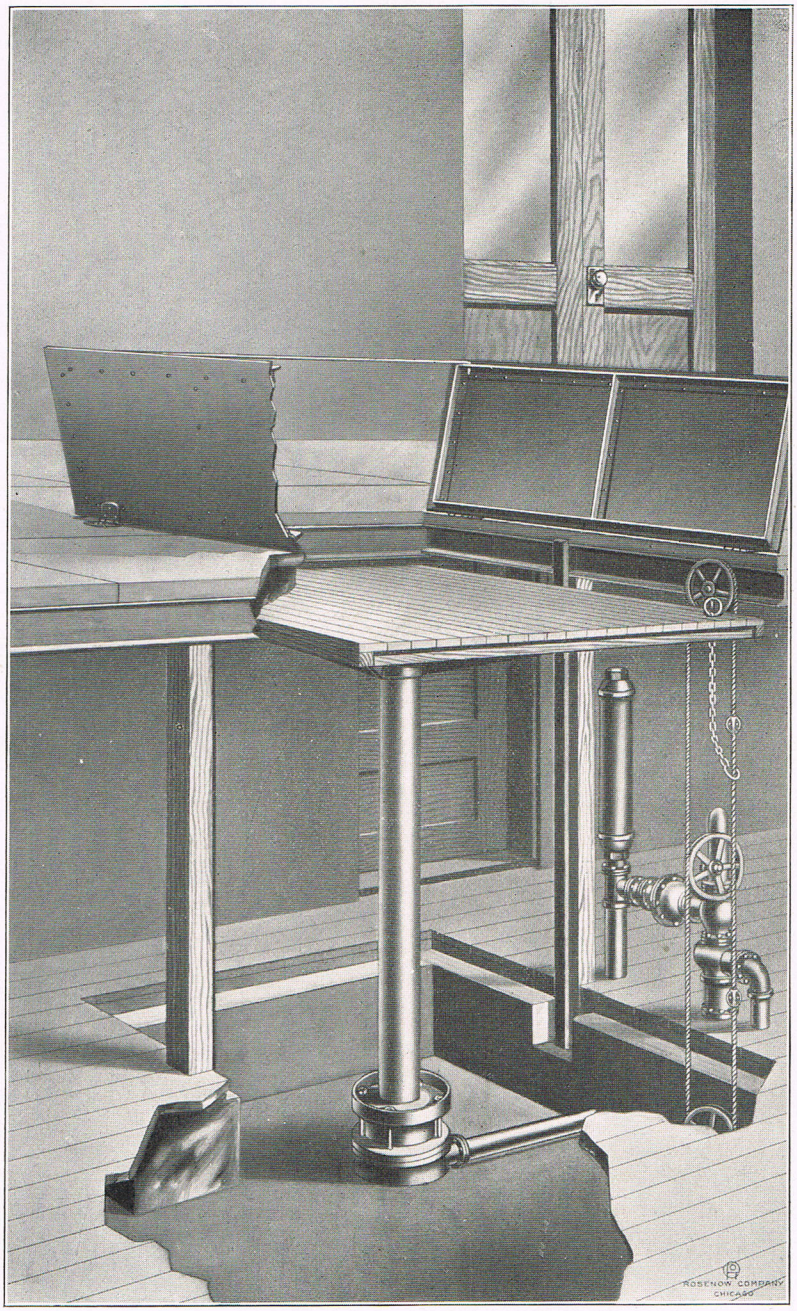

The above cut shows our latest improved **PLUNGER HYDRAULIC BASEMENT OR SIDEWALK HOIST**, which will be readily seen is very simple in construction as there are very few parts, and it is equally simple of operation. The Plunger under car descends in the ground, whatever the rise of car may be, and the water pressure to raise the load may be either secured from street main or from a pressure tank in Building as desired. We make the platform of any size or construction to suit customers requirements, and if preferred it may be arranged to run above the Sidewalk or Floor level to allow of unloading heavy boxes or bales easily from Wagon or Truck. We can furnish the Guides and Car in either steel or all wood construction as may be desired. We also many times construct car with forged bow or stand on same to open and close the doors at first floor Automatically as car goes up and down. Our construction is such that the car is

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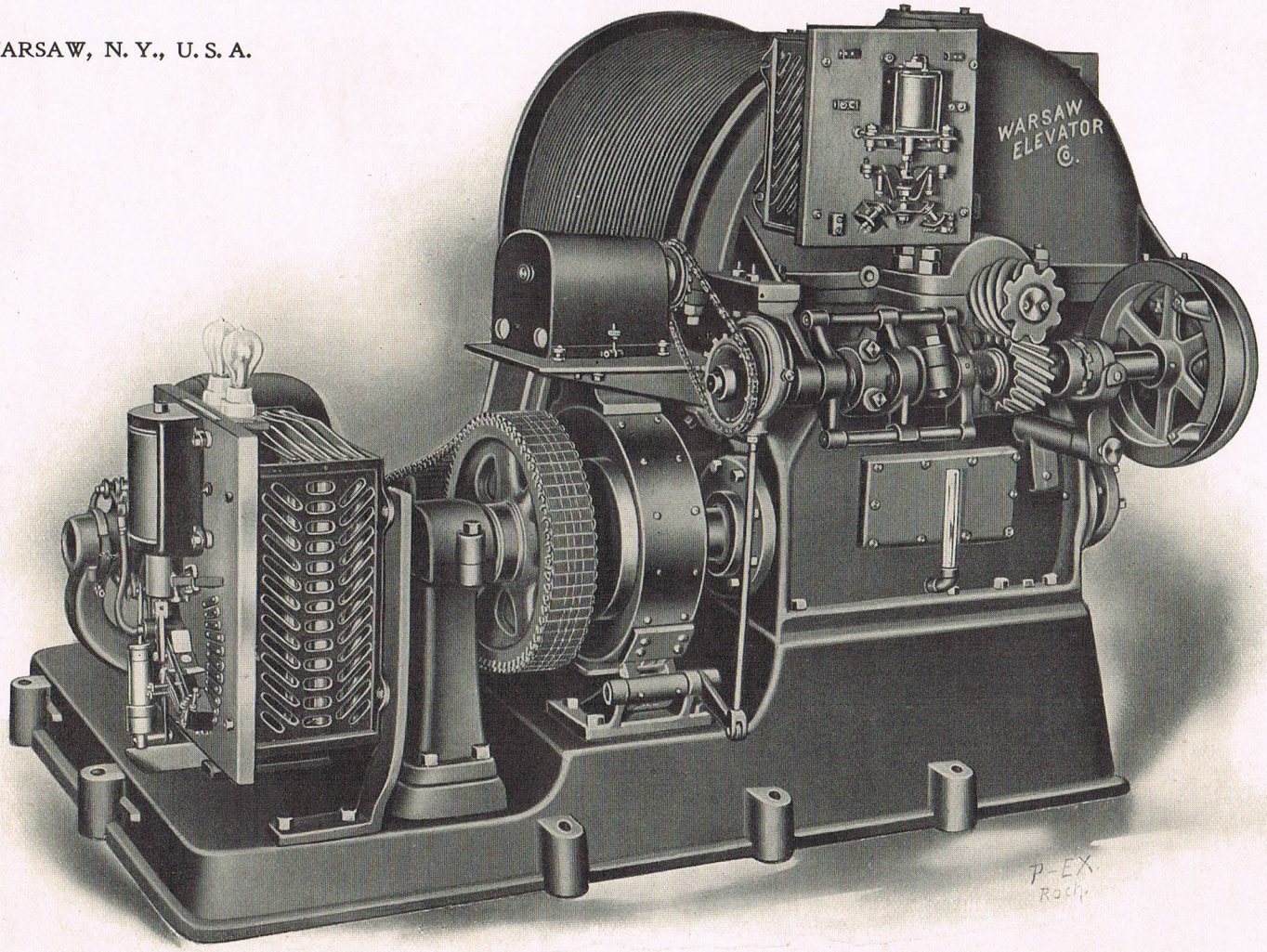

Above cut represents our latest improved Floor-type Worm Gear Electric Elevator Winding Machine, with Silent Chain Connection between Mot and Machine. We manufacture this type in all sizes up to 12,000 pounds capacity, and it can be used either with or without Cast-iron Bed Plate under Machin The Silent Chain we use is the very latest improved, being cut from steel plates, and the gears are also very accurately machine-turned. This Machine can used very successfully up to about 75 feet per minute, and is designed to either set on floor or directly over well hole.

Only the best of material and workmanship are used in its construction.

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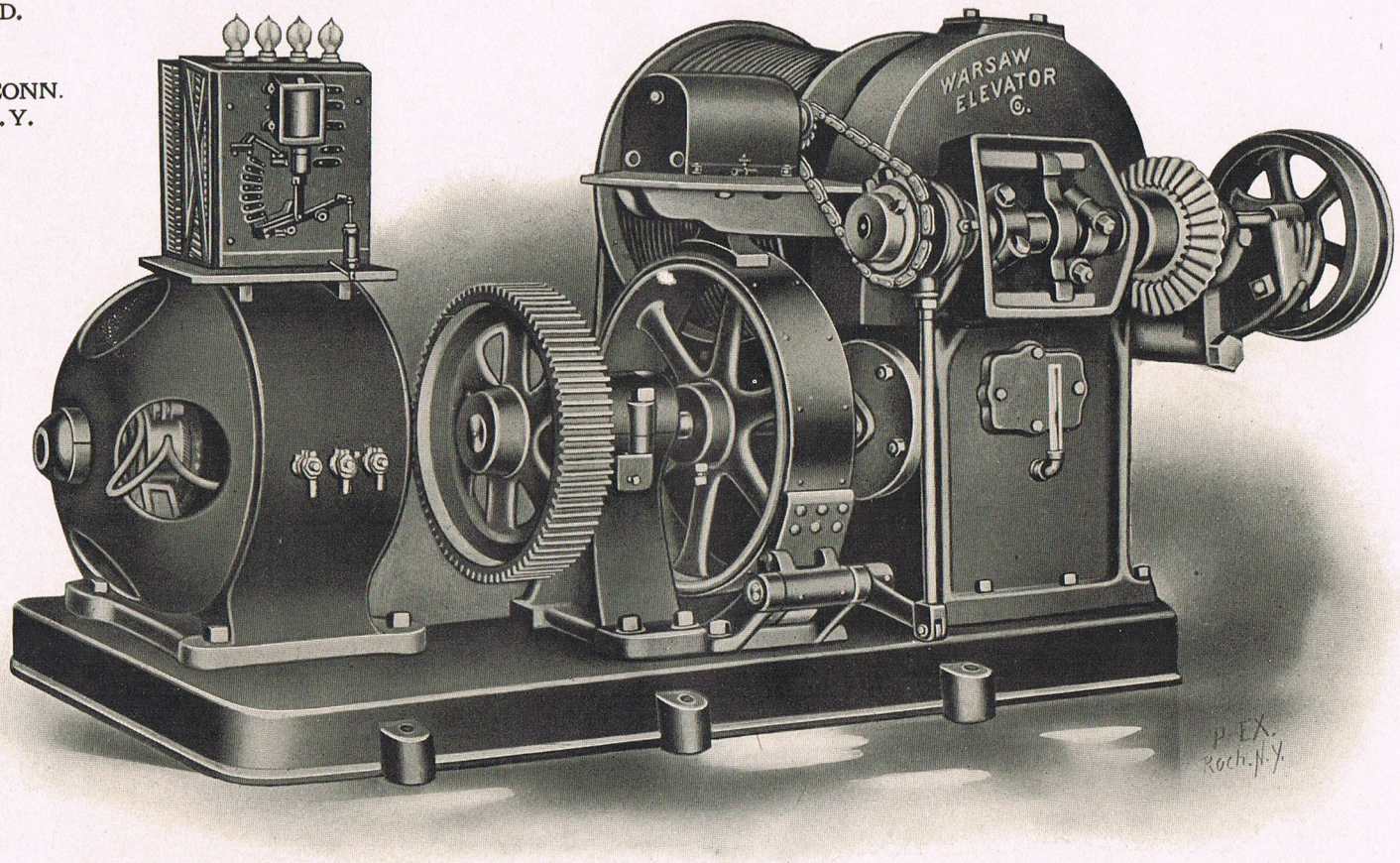

ABOVE illustration shows our new Floor Type Worm Gear Electric Elevator, with spur gear connection between motor and winding machine. This machine is made in all capacities and can be used either with or without cast iron bed plates under machine. We can also furnish silent chain connection between motor and winding machine instead of gears if desired. Where gears are used we furnish a raw hide or hard fibre pinion on motor shaft and an accurately machine cut gear on worm shaft.

Only best of material is used in construction and we will guarantee workmanship second to none.

For an ECONOMICAL, SIMPLE and DURABLE machine there is none better made. Machine can be set over well hole or on any floor of building as desired.

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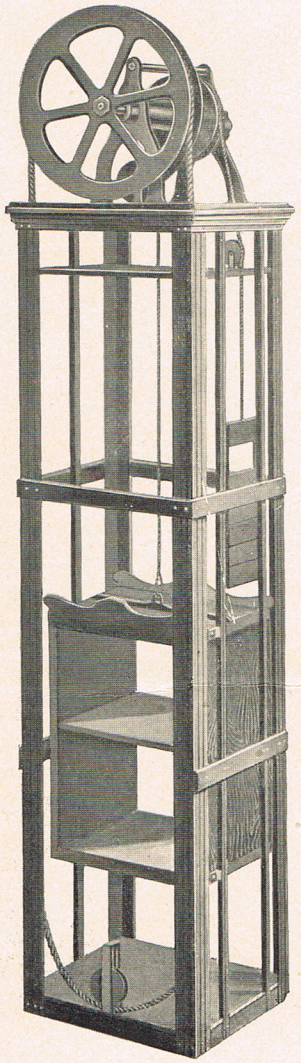

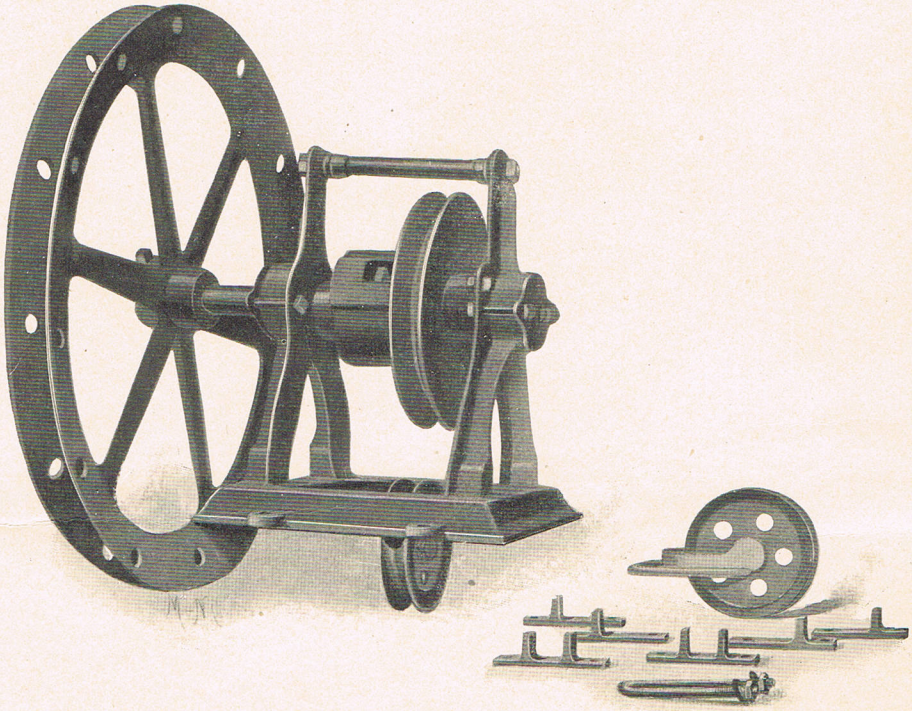

THE above cuts show our self-sustaining dumb waiter complete as erected, and also the winding machine only, some preferring to furnish their own cars. We furnish any size of rope wheel to correspond with hatchway. The following specifications will give you a good idea of their construction:

FRAMES—The machine is complete as shown in solid iron frame with heavy iron base ready to be placed in position, needing only four bolts to fasten same in position. It is impossible for parts to get out of line and cause friction, making it run hard.

No extra pieces to bolt up, except one sheave for counter weight.

ROLLER BEARINGS—One of the reasons our dumb waiters run easy is because they have STEEL ROLLER BEARINGS throughout. This construction reduces friction to the lowest possible point and makes a very much easier running machine, as the bearings are a part of the rigid frame.

AUTOMATIC CLUTCH—The Automatic Clutch is very simple and positive, stopping and holding the load at any point whenever the operator releases the hand rope, and will always do this whether car or counter weight is the heavier. It is operated entirely by the hand rope, and from any floor (no check or brake line used).

This clutch is made of the best steel castings, steel friction disc and bronze thrust ring.

ROPE WHEEL—The rope wheels have extra wide and deep grooves to prevent hand rope jumping when running fast.

CHANGE TO RIGHT OR LEFT HAND—These dumb waiters are so constructed that they may be used with counter weight at right or left hand by changing sheave in frame, and if it is desired to operate car from both sides of well hole, we furnish two rope wheels instead of one.

HAND ROPE—We furnish either pure Manila or Italian hemp hand rope, as preferred, most of our customers preferring the latter, as it is much easier on the operator's hands.

CARS—Cars may be made to fit any size hatchway, and of any kind of soft or hard wood, finished in any desired style, either plain or paneled. They may also be provided with stationary or folding shelves, so that car may be used for hoisting light barrels or boxes. The counter weight and guides are arranged to take up the least possible space. Large numbers of these machines have been installed the last year, thoroughly tested in all positions, and have proved their superiority; they have always given the best of satisfaction, and are guaranteed in every way.

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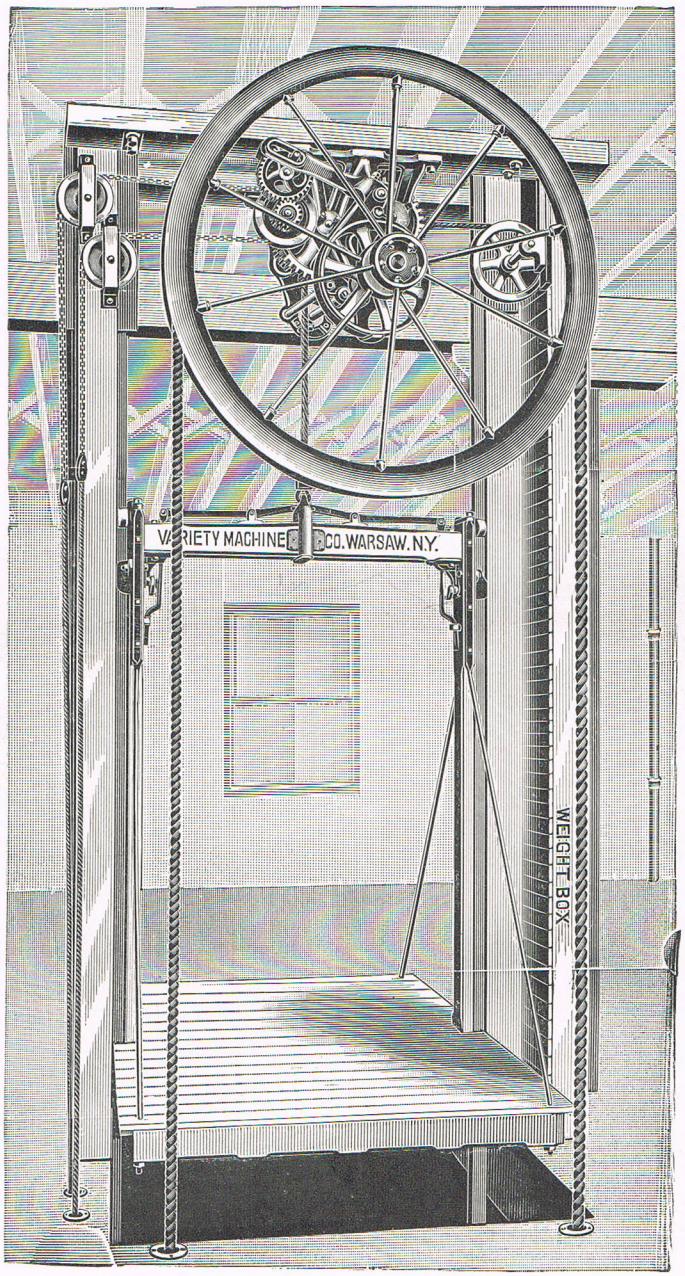

THE above cut shows one of our Hand Elevators, as erected in a building, ready for operation.

The machine here shows rope wheel in front and weight box at the right. This may be reversed—weight box may be placed at left, or rope wheel may be at either side and weight box in rear, to suit the conditions.

We are prepared to furnish car of any size or construction, according to the specifications.

The above cut shows a side post car. Where it is desired to enter on sides as well as ends we furnish a corner post car, by having which it is possible to enter on three sides, the posts being at corners. The cut also shows the winding machine hung underneath overhead timbers, but where there is ample room it can be set on top of timbers, the machines being reversible with very slight change.

We furnish rope wheels of proper size to carry hand ropes to sides of car and not obstruct entrance. This machine is provided throughout with steel roller bearings, and when properly put up it is the EASIEST RUNNING HAND ELEVATOR made, without an exception. Your attention is particularly called to the fact that this winding machine is of solid iron frame construction, it being all bolted together when shipped and same is ready to be fastened to ceiling by the few necessary bolts. This is a great improvement over the old style wood frame machine as furnished by other manufacturers, and we further claim by this construction our machine can be put up in a great deal less time and is much more simple. THIS FACT ALONE IS CERTAINLY WORTH CONSIDERING when